

ABSTRACT OF THE DISCLOSURE

Lightwaves (1), which carry data signals and beacon light, are used for establishing a connection between a receiver and a transmitter located remote from the former. An acquisition sensor (171) is provided for acquiring the lightwaves (1) in the receiver, which generates acquisition sensor signals (**Sc**) from the received lightwaves. The lightwaves (1), which are conducted over a telescope (2) and a beam splitter (R4), are fed to the acquisition sensor (171) as well as to a scanning device (5). Besides useful signals (**Sa**, **Sb**), an additional signal (**Sw**, **Sm'**, **Sm**) is obtained with the aid of the scanning device (5), which is used for making the acquisition easier.

(Fig. 1)